

FIG. 1 is a perspective view of a substrate 10. The substrate 10 is a rectangular plate with a grid of openings 12. A wavy line 13 indicates a fold or bend in the substrate 10.

FIG. 1 is a perspective view of a rectangular substrate 14. The top surface of the substrate is populated with a grid of circular openings 16. The openings are arranged in a regular pattern across the surface.

Diagram illustrating a DNA microarray layout. The array is organized into three distinct groups of spots, each containing 16 spots (indicated by brackets below the groups).

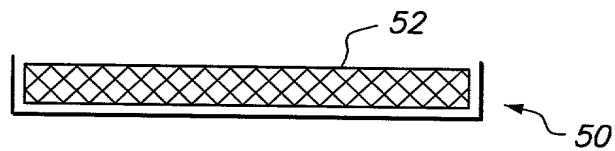
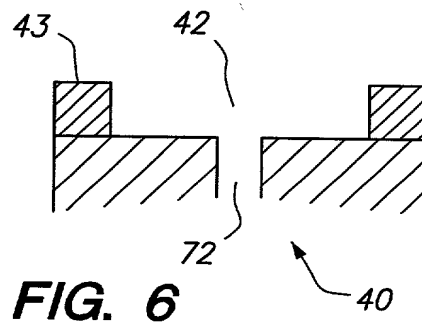
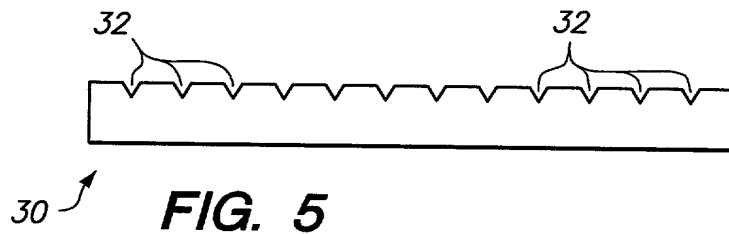
- Group 1 (Left):** Contains 3 columns of 5 spots each. The spots are labeled A, C, G, T, and A (from top to bottom).
- Group 2 (Middle):** Contains 4 columns of 5 spots each. The spots are labeled C, T, C, G, and C (from top to bottom).
- Group 3 (Right):** Contains 1 column of 5 spots. The spots are labeled A, C, T, A, and G (from top to bottom).

14 **FIG. 3**

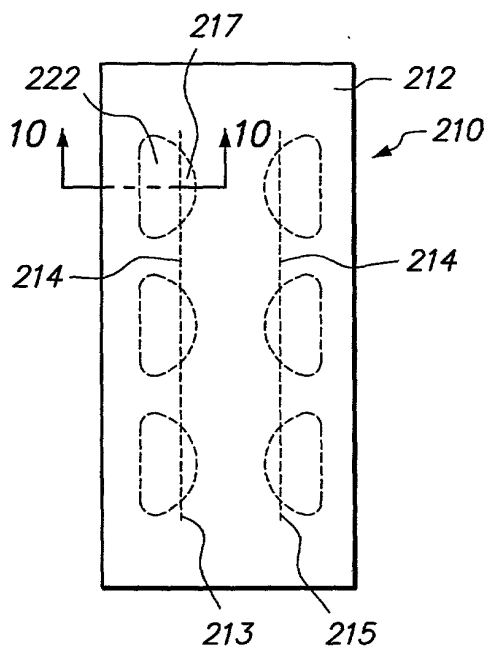


**FIG. 4**

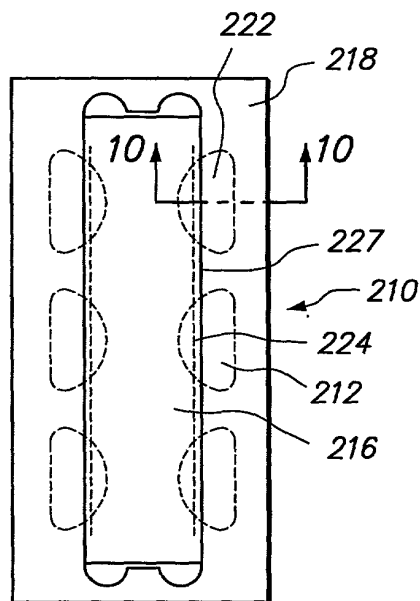
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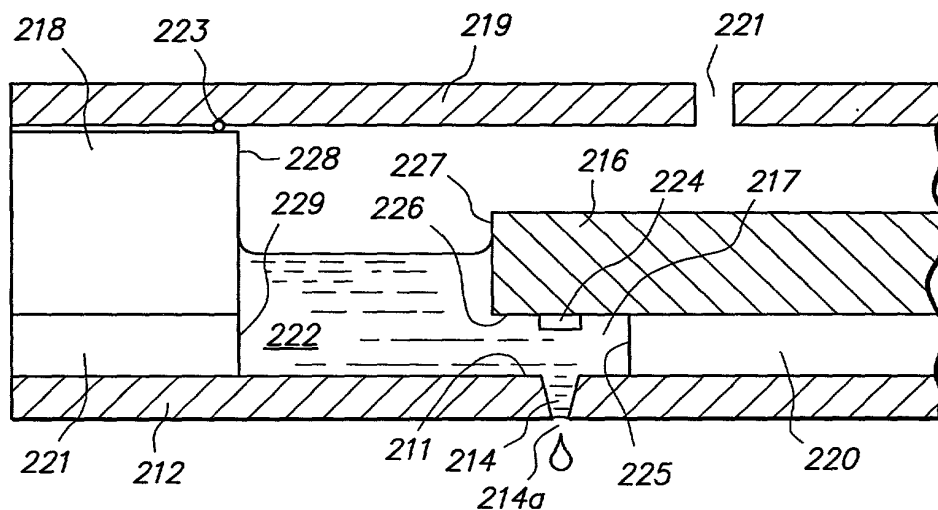
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**FIG. 8**



**FIG. 9**



**FIG. 10**